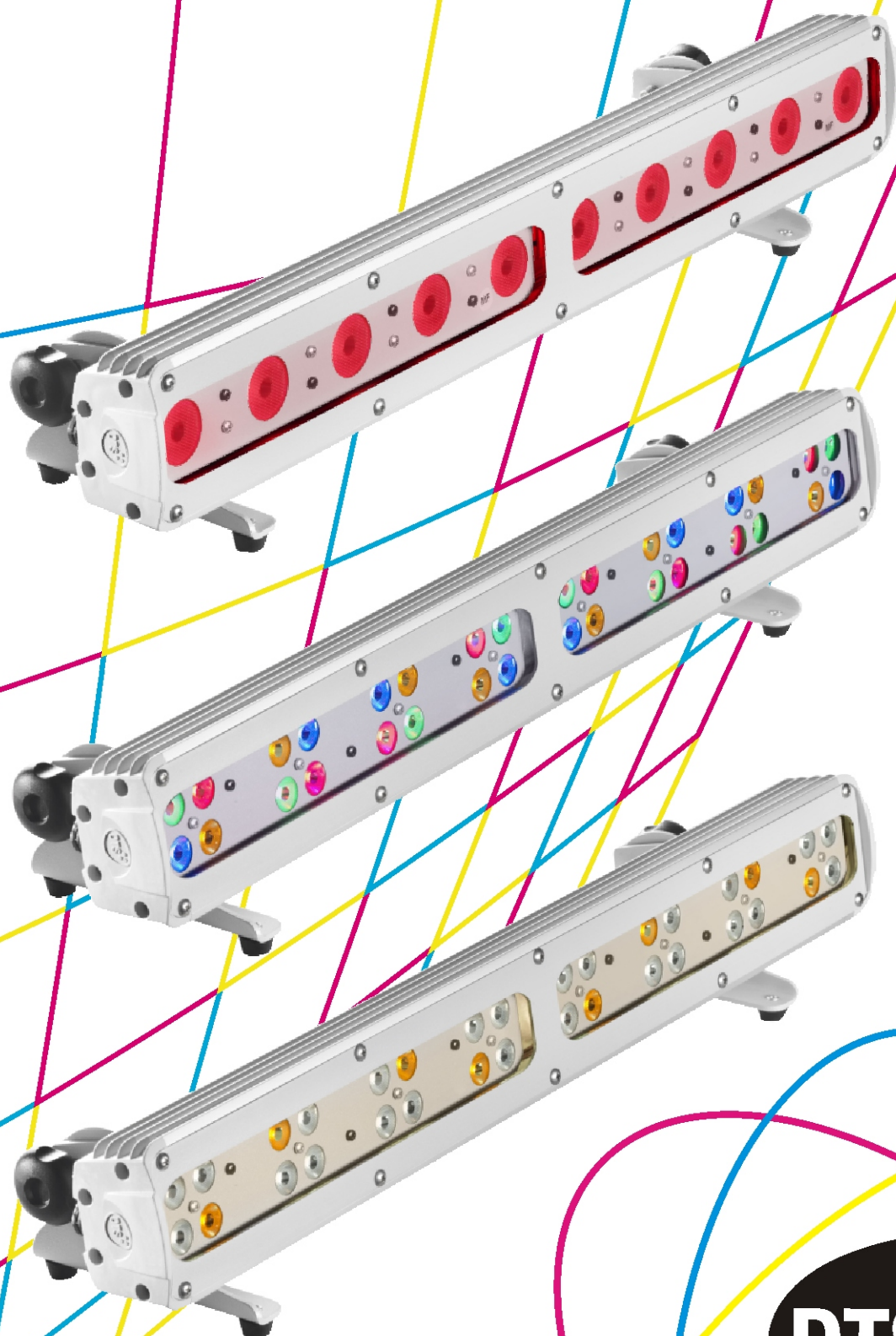


FOS 66



User's Manual rel 1.1 **GB**

D.T.S. Illuminazione s.r.l. - ITALY
<http://www.dts-lighting.it>



The Lighting Company

Made in Italy

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DESCRIPTION

FOS 66 is a new compact self-contained LED bar designed for colouring large surfaces with a uniform projection, either indoor and outdoor.

FOS 66 can be used for many applications, such as: • professional, for an ample range of special events; • theatre and television, for uniform background colours and cycloramas; • architectural, for lighting building facades, public and commercial spaces, monuments, etc.

FOS 66 is made on aluminium and steel offering high resistance to mechanical stress, with an IP65 protection rating.

FOS 66 length is 66 cm.

Various FOS 66 units can be easily connected together (max 3 pcs): the LEDs distribution pattern guarantees no black spaces between the LEDs of in-line bars, and an even coverage of lighted surfaces.

FOS 66 can be used with a range of dedicated power supply / LED controllers: Z8 IP20, Z1 PLUS IP65 or Z1 PLUS IP20.

Three dedicated lenses sets (Spot, Medium flood, Wide flood) are available for each model, offering different light beam projection angles.

FOS 66 can be controlled via any DMX lighting console (external power supply / LED controller needed).

FOS 66 range comprises various models, which employ different sets of LEDs tailored for distinct applications:

FOS 66 FULL COLOUR (10 Full Colour LEDs);

FOS 66 RGBA (32 LEDs: 8 x Red, 8 x Green, 8 x Blue, 8 x Amber);

FOS 66 WHITE (32 LEDs: 24 x White, 8 x Amber).

FOS 66 FULL COLOUR

10 x 3W Full Colour LEDs • Spot / Medium flood / Wide flood lenses

FOS 66 RGBA

32 x 1W Red, Green, Blue + Amber LEDs (8+8+8+8) • Spot / Medium flood / Wide flood lenses

FOS 66 WHITE

32 x 1W White + Amber LEDs (24+8) • Spot / Medium flood / Wide flood lenses

All FOS 66 models are also available with spot / medium flood / wide flood lenses.

LED technology

FOS 66 FULL COLOUR: 10 x 3W Full Colour LEDs

16 million colours; linear colour temperature 3200°K ÷ 5500°K; 16 selectable types of White.

FOS 66 RGBA: 32 x 1W P4 LEDs (8 x Red, 8 x Green, 8 x Blue, 8 x Amber)

16 million colours; linear colour temperature 3200°K ÷ 5500°K; 16 selectable types of White.

FOS 66 WHITE: 32 x 1W P4 LEDs (24 x White, 8 x Amber)

Linear colour temperature 3200°K ÷ 5500°K; 16 selectable types of White.

No infrared emission; no ultraviolet emission

LEDs average lifespan: 100.000 hours

Optical units

3 lenses sets available (Spot, Medium flood, Wide flood)

Control

Via any DMX lighting console (external power supply / LED controller needed).

Protection

IP65 protection level against the penetration of solids and liquids

Construction

FOS is made on aluminium and steel

Power supply

Dedicated power supply / LED controllers: Z8 IP20, Z1 PLUS IP65, Z1 PLUS IP20

Connections

M12 8 pins male connector + cable length 35 cm (FOS 66 END)

2 x M12 8 pins male/female connector + cable length 35 cm (FOS 66 IN / OUT)

Power consumption

48W (FOS 66 FULL COLOUR) ; 50W (FOS 66 RGBA; FOS 66 WHITE)

PRODUCT CODES

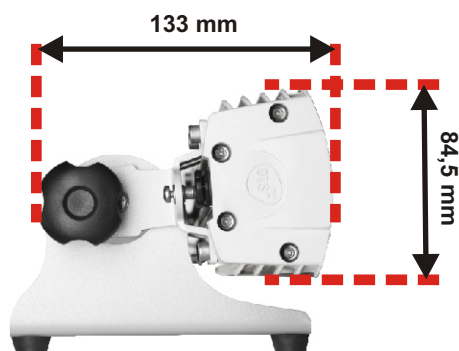
03.LB011.26.FP25	FOS 66 FULLCOLOR *END *Medium flood lenses *Grey Silver finish
03.LB011.FP25	FOS 66 FULLCOLOR *END *Medium flood lenses *Black finish
03.LB011.26.FP10	FOS 66 FULLCOLOR *END *Spot lenses *Grey Silver finish
03.LB011.FP10	FOS 66 FULLCOLOR *END *Spot lenses *Black finish
03.LB011.26.FP40	FOS 66 FULLCOLOR *END *Wide flood lenses *Grey Silver finish
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03.LB011.26.W10	FOS 66 WHITE *END *Spot lenses *Grey Silver finish
03.LB011.W10	FOS 66 WHITE *END *Spot lenses *Black finish
03.LB011.26.W40	FOS 66 WHITE *END *Wide flood lenses *Grey Silver finish
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03.LB010.26.FP10	FOS 66 FULLCOLOR *IN-OUT *Spot lenses *Grey Silver finish
03.LB010.FP10	FOS 66 FULLCOLOR *IN-OUT *Spot lenses *Black finish
03.LB010.26.FP40	FOS 66 FULLCOLOR *IN-OUT *Wide flood lenses *Grey Silver finish
03.LB010.FP40	FOS 66 FULLCOLOR *IN-OUT *Wide flood lenses *Black finish
03.LB010.26.T25	FOS 66 RGBA *IN-OUT *Medium flood lenses *Grey Silver finish
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03.LB010.T10	FOS 66 RGBA *IN-OUT *Spot lenses *Black finish
03.LB010.26.T40	FOS 66 RGBA *IN-OUT *Wide flood lenses *Grey Silver finish
03.LB010.T40	FOS 66 RGBA *IN-OUT *Wide flood lenses *Black finish
03.LB010.26.W25	FOS 66 WHITE *IN-OUT *Medium flood lenses *Grey Silver finish
03.LB010.W25	FOS 66 WHITE *IN-OUT *Medium flood lenses *Black finish
03.LB010.26.W10	FOS 66 WHITE *IN-OUT *Spot lenses *Grey Silver finish
03.LB010.W10	FOS 66 WHITE *IN-OUT *Spot lenses *Black finish
03.LB010.26.W40	FOS 66 WHITE *IN-OUT *Wide flood lenses *Grey Silver finish
03.LB010.W40	FOS 66 WHITE *IN-OUT *Wide flood lenses *Black finish

DIMENSIONS



Unit Dimensions
(LxWxH)
660 x 133 x 84,5 mm

Weight
3,4 Kg



ACCESSORIES

- Lenses set Spot for FOS 66 FULL COLOUR (grey finish) (Code 03.LK.060)
- Lenses set Medium for FOS 66 FULL COLOUR (grey finish) (Code 03.LK.061)
- Lenses set Wide flood for FOS 66 FULL COLOUR (grey finish) (Code 03.LK.062)
- Lenses set Spot for FOS 66 RGBA and WHITE (grey finish) (Code 03.LK.032)
- Lenses set Medium for FOS 66 RGBA and WHITE (grey finish) (Code 03.LK.033)
- Lenses set Wide flood for FOS 66 RGBA and WHITE (grey finish) (Code 03.LK.034)
- Z8 (IP20) power supply / LED controller (M12 Output) (Code 03.LA.075.V2)
- Z8 (IP20) power supply / LED controller (RJ45 Output) (Code 03.LA.074.V2)
- Z8 (IP20) power supply / LED controller (Screw terminals) (Code 03.LA.080.V3)
- Z1 PLUS (IP20) power supply / LED controller (Code 03.LA.009P)
- Z1 PLUS (IP65) power supply / LED controller (Code 03.LA.009P.IP65)
- IR receiver for Z1 PLUS (Code 03.LA.016)
- IR remote control for Z1 PLUS (Code 0514L008)
- 4x2xAWG24 IP68 multipolar black outdoor cable (Code 0509C062)
- M12 female (8 poles) cable connector (Code 0520P050)
- M12 male (8 poles) cable connector (Code 0520P051)

IMPORTANT SAFETY INFORMATION

Fire prevention:

Never locate the fixture on any flammable surface.
Minimum distance from flammable materials: 10 cm

Safety:

The external surface of the unit may exceed 50°C, never handle the unit until at least 5 minutes have elapsed since the unit was turned off.

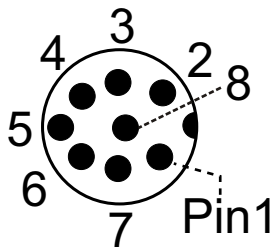
Never install the unit in an enclosed area lacking sufficient air flow.

The ambient temperature should not exceed 40°C and should not be lower than -10°C.

WIRING DIAGRAM

FOS 66 is provided with an M12 male connector (35 cm cable length).

M12 PIN CONNECTOR
MALE ON BOARD
FOS 66



LEDS CONNECTOR
WIRING
FOS 66 FULL COLOUR

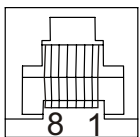
1-RED +
2-RED -
3-GREEN +
4-GREEN -
5-BLUE +
6-BLUE -
7-not used
8-not used

LEDS CONNECTOR
WIRING
FOS 66 RGBA

1-RED +
2-RED -
3-GREEN +
4-GREEN -
5-BLUE +
6-BLUE -
7-AMBER -
8-AMBER +

LEDS CONNECTOR
WIRING
FOS 66 WHITE+AMBER

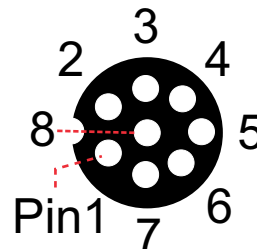
1-WHITE1 +
2-WHITE1 -
3-WHITE2 +
4-WHITE2 -
5-WHITE3 +
6-WHITE3 -
7-AMBER -
8-AMBER +



8 pins Female (RJ45)

Pin 1 = RED +
Pin 2 = RED -
Pin 3 = GREEN +
Pin 4 = GREEN -
Pin 5 = BLUE +
Pin 6 = BLUE -
Pin 7 = AMBER +
Pin 8 = AMBER -

M12 PIN CONNECTOR
FEMALE ON BOARD
Z8 / Z1 POWER SUPPLY / LED CONTROLLER



PIN CONNECTOR FEMALE
ON BOARD

For application where IP65 rating is not necessary, FOS 66 cabling connection can be done with a standard UTP TIA/EIA 568-B2 category 5E cable.

The maximum distance between power supply and the unit should not exceed 100 meters.

For IP65 rating application, D.T.S. recommends the use of an IP65/68 cable as the 4x2xAWG24 multipolar black outdoor cable (IP68) (D.T.S. Code: 0509C062).

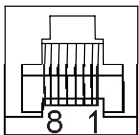
The maximum distance between power supply and the unit on the line should not exceed 100 meters.

WIRING CONNECTIONS

Z8 IP20 LED Controller (RJ45 Output) D.T.S. Code 03.LA.074.V2

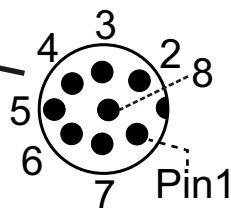


Pin 1 = RED +
Pin 2 = RED -
Pin 3 = GREEN +
Pin 4 = GREEN -
Pin 5 = BLUE +
Pin 6 = BLUE -
Pin 7 = AMBER +
Pin 8 = AMBER -



8 pins Female (RJ45)

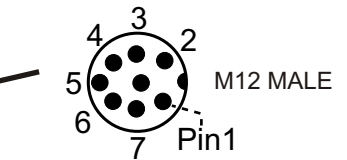
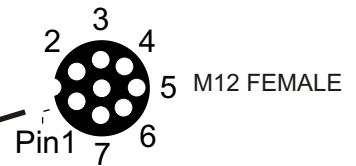
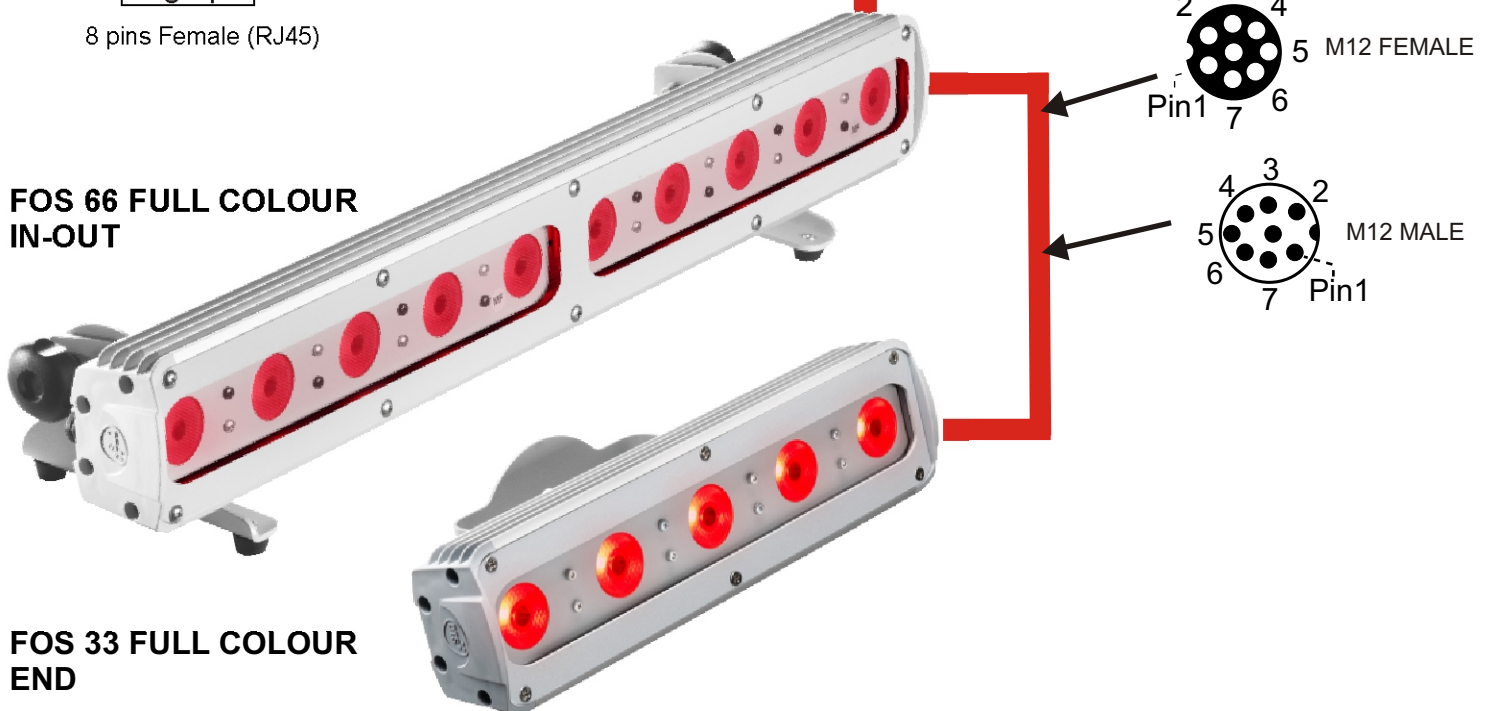
M12 PIN CONNECTOR
MALE ON BOARD
FOS 66 FULL COLOUR



Pin 1 = RED +
Pin 2 = RED -
Pin 3 = GREEN +
Pin 4 = GREEN -
Pin 5 = BLUE +
Pin 6 = BLUE -
Pin 7 = AMBER -
Pin 8 = AMBER +

FOS 66 FULL COLOUR
IN-OUT

FOS 33 FULL COLOUR
END

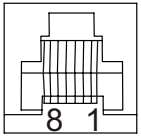


IMPORTANT:

The maximum number of FOS 66 connectable to the Z8 power supply is 3 pcs.
The maximum distance between the Z8 and the last FOS 66 FULL COLOUR unit in the line (3 pcs) should not exceed 50 meters.
The maximum distance between the Z8 and the last FOS 66 RGBA / WHITE unit in the line (3 pcs) should not exceed 100 meters.

Never connect or disconnect a FOS unit when the power supply is turned on.

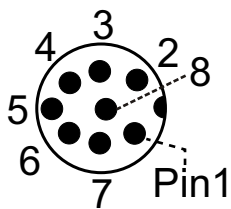
WIRING CONNECTIONS



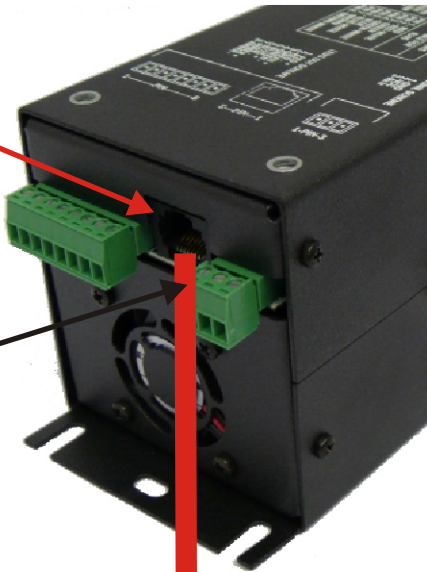
8 pins Female (RJ45)

Pin 1 = RED +
 Pin 2 = RED -
 Pin 3 = GREEN +
 Pin 4 = GREEN -
 Pin 5 = BLUE +
 Pin 6 = BLUE -
 Pin 7 = AMBER +
 Pin 8 = AMBER -

M12 PIN CONNECTOR
 MALE ON BOARD
 FOS 66 FULL COLOUR



Pin 1 = RED +
 Pin 2 = RED -
 Pin 3 = GREEN +
 Pin 4 = GREEN -
 Pin 5 = BLUE +
 Pin 6 = BLUE -
 Pin 7 = AMBER -
 Pin 8 = AMBER +

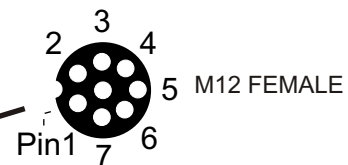


**Z1 PLUS IP20
 LED Controller
 (RJ45 Output)
 Code 03.LA.009P**

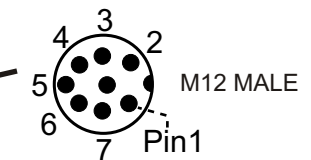
**FOS 66 FULL COLOUR
 IN-OUT**



**FOS 33 FULL COLOUR
 END**



M12 FEMALE



M12 MALE

IMPORTANT:

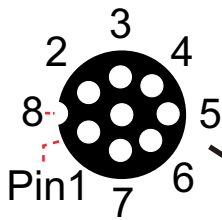
The maximum number of FOS 66 LED projectors connectable to the Z1 PLUS power supply is 3 pcs. The maximum distance between the Z1 PLUS and the last FOS 66 unit in the line should not exceed 100 meters.

Never connect or disconnect a LED unit when the power supply is turned on.

WIRING CONNECTIONS

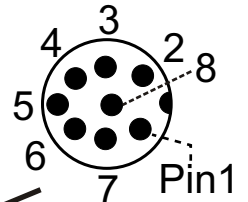
**Z1 PLUS IP65 LED Controller
(M12 Output)
D.T.S. Code 03.LA.009P.IP65**

M12 PIN CONNECTOR
FEMALE ON BOARD
Z1 PLUS IP65



Pin 1 = RED +
Pin 2 = RED -
Pin 3 = GREEN +
Pin 4 = GREEN -
Pin 5 = BLUE +
Pin 6 = BLUE -
Pin 7 = AMBER -
Pin 8 = AMBER +

M12 PIN CONNECTOR
MALE ON BOARD
FOS 66 FULL COLOUR

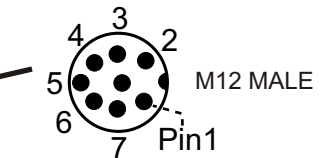
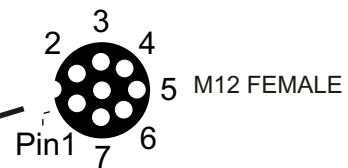
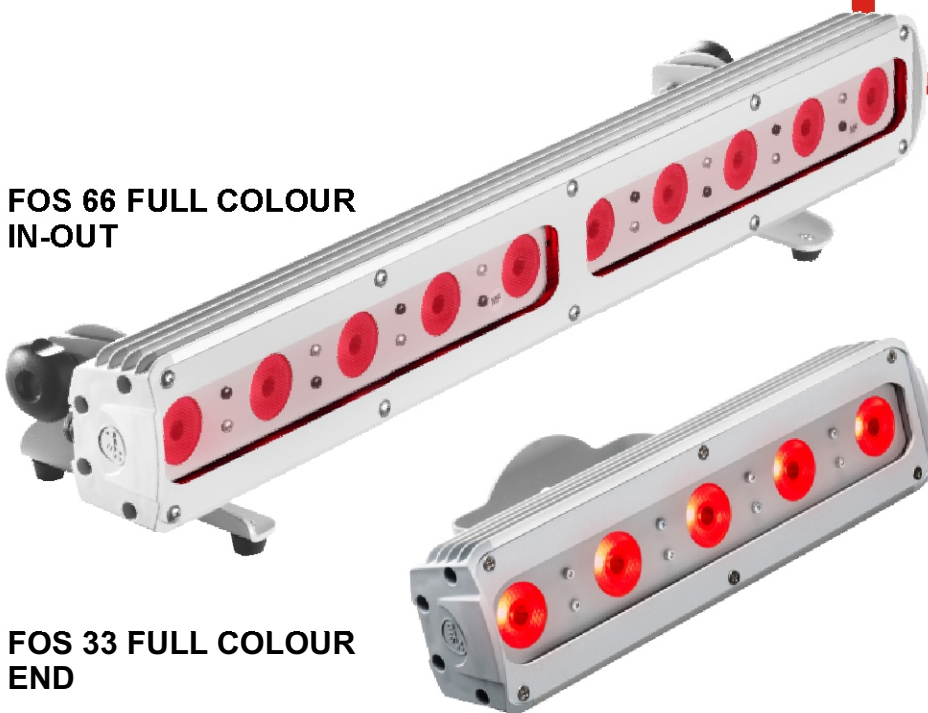


Pin 1 = RED +
Pin 2 = RED -
Pin 3 = GREEN +
Pin 4 = GREEN -
Pin 5 = BLUE +
Pin 6 = BLUE -
Pin 7 = AMBER -
Pin 8 = AMBER +



**FOS 66 FULL COLOUR
IN-OUT**

**FOS 33 FULL COLOUR
END**



IMPORTANT:

The maximum number of FOS 66 LED projectors connectable to the Z1 PLUS power supply is 3 pcs. The maximum distance between the Z1 PLUS and the last FOS 66 unit in the line should not exceed 100 meters.

Never connect or disconnect a LED unit when the power supply is turned on.

NOTES

NOTES

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MADE IN ITALY



The Lighting Company

ISO 9001:2008

D.T.S. quality system
is certified to the
ISO 9001:2008 standard



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and manufactured at the D.T.S.
plants in Italy



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